



LED Hoop Earring, Mk I

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TOOLS:

- [Jeweler's pliers \(1\)](#)
- [X-Acto knife \(1\)](#)

PARTS:

- [LED any size or type e.g. Mouser 604-WP7113QBC D \(2\)](#)
T-1 is a good size. Larger is too much.
- [Hoop earring \(2\)](#)
Plastic-coated and shiny are good.
- [Electrical Tape \(1\)](#)
If you want to get fancy, you can match the tape-color to the earring-color (e.g., red vinyl-coated hoops with red electrical tape).
- [Monofilament \(Fishing\) Line \(1\)](#)
- [CR2032 Lithium Battery \(2\)](#)

SUMMARY

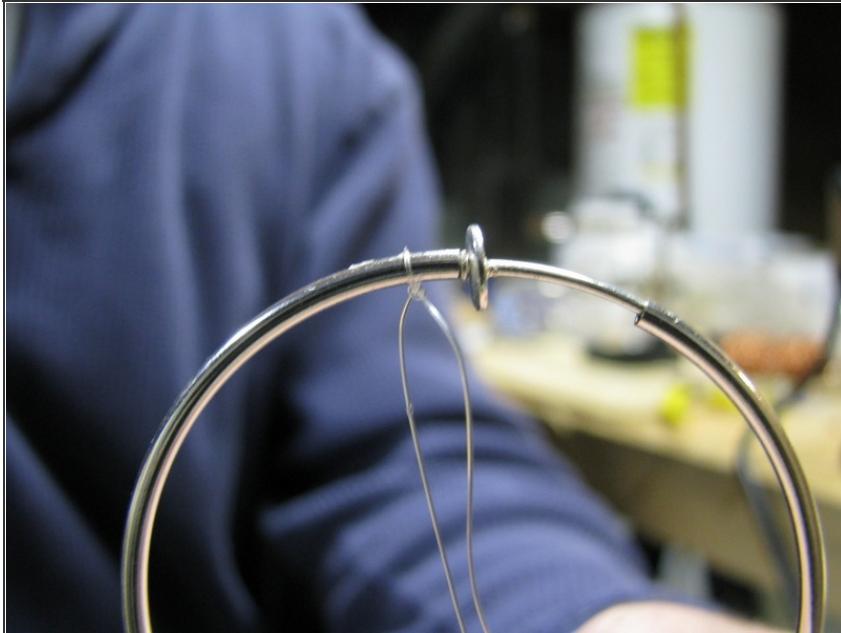
Throwie-based modification of hoop earrings to illuminate them with LEDs.

Step 1 — LED Hoop Earring, Mk I



- Note which lead is longer. Using the jeweler's pliers, carefully bend both leads 180 degrees. The idea is to illuminate the earring and the wearer, not the wearer's shoulder.
- Bend the longer lead 90 degrees to one side.
- Bend the shorter lead into a circle.

Step 2



- Cut a generous length of monofilament (8-12").
- Tie the center of the monofilament around the hoop. Use a [Round-Turn and 2 Half-Hitches](#).
- Make sure the knot is near the "top" of the earring. The battery and LED will hang from the knot.

Step 3



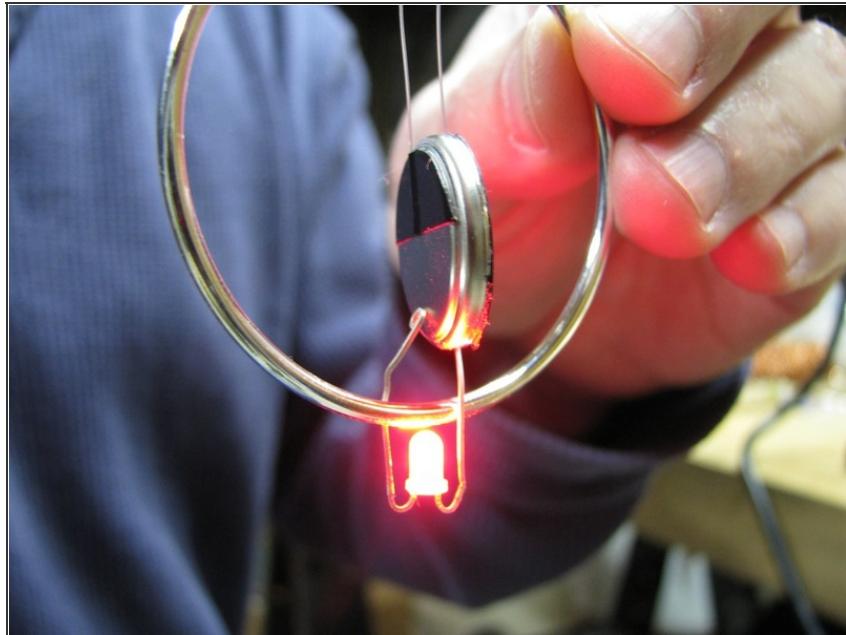
- Cut a length of electrical tape, sufficient to cover one side of the battery.
- Cut *one* side of the monofilament at a length where the LED will hang below the hoop.
- Tape the cut monofilament and the *longer* (90° bend) LED lead to the *positive* face of the battery. Completely cover the battery's face.
 - If you want to get fancy, you can bend the lead in such a way that you can tie the monofilament to the lead. Don't let the monofilament interfere with good contact between the battery and lead.
 - Trim the tape to the edge of the battery.

Step 4



- Cut a length of electrical tape that will cover half of the other battery surface.
- Position the LED such that a lead falls on each side of the hoop. Tape the monofilament so the battery hangs evenly from both lengths.
- Trim the monofilament to the edge of the tape.
- Trim the tape to the edge of the battery.

Step 5



- Bend the short lead into good contact with the battery. Do *not* let the lead touch the edge of the battery -- that's part of the positive contact.

A third-hand is really useful, also.

This document was last generated on 2012-11-03 01:29:45 AM.